

# Carboguard E-19 Primer

PRODUCT DATA SHEET

#### **SELECTION & SPECIFICATION DATA**

**Generic Type** Two-components epoxy polyamide primer containing zinc phosphate.

Description

Carboguard E 19 Primer is a versatile epoxy primer with excellent resistance to salts, water and alkalies. Very good resistance to mild acids and solvents.

· Excellent corrosion resistance

· Cured film is tough and abrasion resistant

**Features** 

• Used 40% diluted as a tie-coat over zinc silicate and metallized steel

· Excellent adhesion to aluminium

· Widely used within petrochemical-, offshore and shipping industries

Color | Red and Grey

Finish | Flat

Primer | Self-priming

**Wet Film Thickness** | 60 – 400 μm per coat, normally 150 μm.

30 - 200 microns (1.18 - 7.87 mils) per coat

**Dry Film Thickness** 

Normally 75 µm.

**Solid(s) Content** | By volume:  $50 \pm 2\%$ 

Theoretical Coverage

5,0 m<sup>2</sup>/l at 100 µm

Rates | Allow for loss in mixing and application.

Dry Temp. Resistance

Continuous: 120°C (248°F) Non-Continuous: 150°C (302°F)

Limitations

Not recommended for immersion service in strong acids or exposures in areas where chalking is undesirable

**Topcoats** | May be topcoated with epoxy, vinyl, polyurethane or other coatings as recommended by Carboline.

#### SUBSTRATES & SURFACE PREPARATION

General

Surface must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

Steel

Abrasive blasting to min. Sa 2½ (ISO 8501-1). Alternatively, ultra high pressure water jetting to Nace No. 7 min. C Vis WJ-2. Max flash rust; C Vis WJ-2M.

Concrete

Concrete must be cured at least 28 days at 24°C and 50% relative humidity or equivalent. Prepare surfaces in accordance with with ASTM D42582 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

#### MIXING & THINNING

Mixing | Power mix separately, then add part B to Part A and power mix. DO NOT MIX PARTIAL KITS.

**Thinning** | May be thinned up to 40% with Carboline Thinner #15.

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## MIXING & THINNING

Ratio | 2:1 (A to B) by volume

**Pot Life** 6 hours at 23°C and higher at lower temperatures.

#### APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

#### General

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Pump ratio: 30:1 (min.) \* GMP Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.)

#### **Airless Spray**

Tip Size: .015-.021" Output PSI: 2000 Filter Size: 60 mesh

\* Teflon packings are recommended and available from the pump manufacturer.

#### Brush & Roller (General)

For small areas and stripe coating. Multiple coats may be required to obtain desired appearance, and recommended dry film thickness.

**Brush** | Use a medium bristle brush.

Roller | Use a medium nap phenolic core roller.

#### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	40°C (104°F)	50°C (122°F)	50°C (122°F)	85%

Industry standards are for substrate temperatures to be 3°C above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

#### CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Recoat	Final Cure
5°C (41°F)	4 Hours	20 Hours	21 Days
15°C (59°F)	2 Hours	15 Hours	14 Days
25°C (77°F)	1 Hour	5 Hours	10 Days

These times are based on 75  $\mu$ m DFT. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

#### **CLEANUP & SAFETY**

Cleanup Use Carboline Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.



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## **CLEANUP & SAFETY**

Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with applicable regulations. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

### PACKAGING, HANDLING & STORAGE

Shelf Life Part A: 24 months at 24°C

Part B: 36 months at 24°C

Storage Temperature & | 5° - 45°C

**Humidity** 0 - 95% relative humidity

**Storage** | Store indoors.

Packaging | Part A 13,3 litres Part B 6,7 litres

#### WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.

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